

TRIAS

Resources from the 2024 National Emerging Architect Prize Tour

Here are some of the resources I shared in the talk, in case they are useful to you and your practice.

SUSTAINABILITY TOOLS

These are the tools we use at Trias to complete thermal modelling and embodied carbon modelling.

- HERO: a free tool we use for thermal modelling our projects. We use this in house and there are simple tutorials available online. Link [here](#)
- One Click LCA: used for embodied carbon modelling and life cycle assessments. Link [here](#)

BOOKS, REFERENCES AND REPORTS

All of these resources were included in my talk, and are a great starting point for learning about embodied carbon.

- *Building Construction Material Pyramid* – a piece of research out of Denmark that categorises the carbon intensity of different materials, using the analogy of a food pyramid. Very useful for getting a sense of high and low embodied carbon materials. Link [here](#)
- *Future Materials Co* – a fantastic resource by client and friend Renae Tapley, which is a database of low carbon materials available in Australia. Link [here](#)
- *LETI Climate Emergency Design Guides* – LETI has plentiful resources including their Climate Emergency Design Guides. One very useful tool are their one page cheat sheets on reducing carbon in four sectors: small scale housing, medium and large scale housing, schools and commercial offices. Their guides provide useful benchmarks and give suggestions as to where and how to target reductions in both operational and embodied carbon. Link [here](#)
- World Green Building Council's *Bringing Embodied Carbon Upfront* report – the hierarchy of Build Nothing, Build Less, Build Clever, Build Efficiently comes from this excellent report. Link [here](#)

QUOTES AND REFERENCE TEXTS

The quotes included in the talk were from two books: *Hope in the Dark* by Rebecca Solnit and *Material Reform: Building for a Post-Carbon Future* by Material Cultures.

ONGOING RESOURCES

Off the back of the energy and inspiring conversations I had on the 2024 National Emerging Architect Prize tour, our studio has decided to start a regular Substack newsletter to share what we are learning.

Feel free to subscribe to follow along

<https://triasstudio.substack.com/>

You can also send any questions to us at studio@trias.com.au

Thank you for your interest in these resources and wishing you all the best.

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